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(71) Applicant: MATSUSHITA ELECTRIC IND CO LTD

(72) Inventor: KONISHI CHIKA  
HARUYAMA YUUJI  
MATSUMOTO KENZO

## (54) MAGNETISM DETECTING DEVICE

## (57) Abstract:

**PURPOSE:** To ensure the detection, by constituting a switching circuit, which is operated by a signal from a Hall element, an indicator lamp, which is turned ON by the output of the switching circuit, and output terminals on one printed circuit board, and providing a unitary body by molding.

**CONSTITUTION:** A case 1 is molded as a unitary body, wherein all parts of a magnetism detecting device are built in. At the lower side of the case 1, a rotation stopping projection 2, whose diameter is the same as that of an attaching hole to an attaching equipment, is provided. At the upper side of the case 1, an attaching hole 3 for a flat head screw is provided. In the case 1, a Hall element 4 for detecting magnetism, an indicator lamp 5 for indicating switching states, and a printed circuit board 6 for mounting the Hall element 4 and the lamp 5 are built in. When a permanent magnet, which is provided at a movable part of the attaching equipment is brought close to the Hall element 4 and the magnetic field is applied, a fine Hall voltage is generated. The voltage is amplified, switched, and outputted to an output terminal 9. The voltage is

outputted to the indicator lamp 5, and the state is indicated.

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